

ABSTRACT

The present invention provides a non-woven fabric, a separator, and a battery. The non-woven fabric includes a structural fiber, and the structural fiber includes a circular cross-section fiber and a profiled fiber; and a cross section of at least part of the profiled fibers has a perimeter coefficient being X_L , with $1 < X_L \leq 5$. The present invention can improve the strength of the non-woven fabric while maintaining its relatively small thickness, thereby simultaneously improving the safety, cycle life, energy density and other properties of the battery.

No Figure.